

SOLID-STATE IMAGE PICKUP DEVICE AND DRIVING METHOD THEREFOR

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Abstract

PROBLEM TO BE SOLVED: To suppress the dispersion of the electric charge amount to leak in at the time of emission and non-emission of an LED, to increase the signal charge amount without increasing the number of LEDs and to facilitate sensitivity control.

SOLUTION: A photodiode 24 is connected through a transfer transistor 25 to sample-and-hold(S/H) transistors 26a and 26b for transferring electric charges to S/H capacitors 32a and 32b and connected through the transfer transistor 25 to a reset transistor 27 and an amplifier transistor 28. Besides, an address transistor 29 is connected to the amplifier transistor 28. The S/H capacitors 32a and 32b are arranged at positions symmetric to the center of (n) diffusion layers at the photodiode 24.

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